

TITLE OF THE INVENTION  
COORDINATE IN VIVO GENE EXPRESSION

5     ABSTRACT OF THE INVENTION

          Nucleic acids, including DNA constructs and RNA transcripts,  
capable of inducing coordinate expression of two to three cistrons upon  
direct introduction into animal tissues, are . bi- or tri-cistronic  
polynucleotides of this invention include those encoding and co-  
10     expressing HIV gene products, genes encoding antigens unrelated to  
HIV, and immunostimulatory gene products, including but not limited  
to GM-CSF, interleukins, interferon and members of the B7 family of  
proteins which act as T-cell costimulatory elements. The methods and  
polynucleotides of this invention are generally applicable to co-ordinate  
15     expression in vivo of any two or more genes in a single cell.

20

25

30